Week 27 Bio Warmups

Listed below are the 5 statements about mitosis. Choose the term listed in parentheses that will correctly complete the sentence.

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| 1. | The end result of mitosis is (**two, four**) daughter cells. |
| 2. | (**Prophase, Cytokinesis**) is not part of mitosis. |
| 3. | One of the purposes of mitosis is to produce cells for (**reproduction, replacement**). |
| 4. | Human cells produced during mitosis have (**23, 46**) chromosomes. |
| 5. | A whale has (**the same size, larger**) cells than a starfish. |

Match each stage of cell division with the correct description.

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| 1. | interphase | a. | sister chromatids begin to pull apart from each other and move to opposite ends of the cell |
| 2. | metaphase | b. | longest phase of cell division; not part of mitosis |
| 3. | telophase | c. | chromosomes become visible and nuclear envelope disappears |
| 4. | anaphase | d. | chromosomes line up in the middle of the cell |
| 5. | prophase | e. | cell membrane begins to pinch in and nuclear envelopes begin to reform |

Place the following steps of cell division in order starting with interphase. Circle those steps that are considered to be part of mitosis.

1. Interphase
2. Anaphase
3. Prophase
4. Cytokinesis
5. Telophase
6. Metaphase

Match each phase of mitosis with the correct picture.

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| --- | --- | --- | --- |
| 1. | prophase | a. |  |
| 2. | telophase | b. |  |
| 3. | metaphase | c. |  |
| 4. | anaphase | d. |  |

Identify each characteristic as true of mitosis (MIT) or meiosis (MEI).

1. Produces 2 cells
2. Produces haploid cells
3. Produces sex cells
4. Produces identical cells
5. Produces cells for body growth